

Notice of Allowability

Application No.

09/108,357

Examiner

Toan D. Nguyen

Applicant(s)

SUGATA ET AL.

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/23/05.
2. ☒ The allowed claim(s) is/are 1-2, 4, 6-8, 10, 12, 14, 18-20, 22, 26-29, 32-34, 38, 40 are renumbered 1-22, respectively.
3. ☒ The drawings filed on 01 July 1998 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 6/1/05
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Examiner Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. James Hwa on June 01, 2005.

2. The application has been amended as follows:

IN THE CLAIMS:

Claim 2 line 1, delete "An" and insert --- The ---.

Claim 4 line 1, delete "An" and insert --- The ---.

Claim 6 line 1, delete "An" and insert --- The ---.

Claim 7 line 1, delete "An" and insert --- The ---.

Claim 10 line 1, delete "An" and insert --- The ---.

Claim 14 line 1, delete "An" and insert --- The ---.

Claim 26 line 1, claim 27 line 1, claim 28 line 1, and claim 29 line 1, delete "An" and insert --- The ---.

Claim 33 line 1, and claim 34 line 1, delete "An" and insert --- The ---.

The above examiner's amendment was made to clarify the claims.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art fails to teach a combination of the steps of:

b) a transmission unit, arranged to multiplex the first information encoded by said encoding unit in a broadcast signal, and transmitting the multiplexed signal, wherein said transmission unit is also arranged so as to multiplex second information including character information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 8, the prior art fails to teach a combination of the steps of:

wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 12, the prior art fails to teach a combination of the steps of:

b) a transmission unit, arranged to multiplex the first information encoded by said encoding unit in a broadcast signal, and transmit the multiplexed signal, wherein a plurality of kinds of information are able to be transmitted as an entity in the first information, wherein said encoding unit uses different error detection or correction ability in correspondence with the kind of information, wherein said

transmission unit also arranged so as to multiplex second information including character information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 18, the prior art fails to teach a combination of the steps of:

wherein said multiplexing step is also arranged so as to multiplex second information including character information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 19, the prior art fails to teach a combination of the steps of:

multiplexing the first information in a broadcast signal and transmitting the multiplexed signal, wherein a portion of a header in the first information is transmitted at least a plurality of number of times while an entity in the first information is transmitted, wherein said multiplexing step is also arranged so as to multiplex second information

including character information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 20, the prior art fails to teach a combination of the steps of:
multiplexing the encoded first information in a broadcast signal, and transmitting the multiplexed signal, wherein a

plurality of kind of information are able to be transmitted as an entity in the first information, wherein different error detection or correction ability is used in correspondence with the kind of information, wherein said multiplexing step is also arranged so as to multiplex second information including character information into the broadcast signal without using the Markup language description format to transmit the thus-multiplexed signal, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 22, the prior art fails to teach a combination of the steps of:

a) a reception unit, arranged to receive a first broadcast signal obtained by multiplexing first information to be distributed in a Markup language description format used in a multimedia network and a first error check code added for the information to be distributed, wherein said reception unit is also arranged so as to received a second broadcast signal provided by multiplexing second information including character information distributed without using the Markup language description format, and a second error check code, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 32, the prior art fails to teach a combination of the steps of:

b) a display unit, arranged to display the first character information, wherein said display unit displays second character information when said reception unit receives a broadcast signal obtained by multiplexing the second character information, in the specific combination as recited in the claim.

Regarding claim 38, the prior art fails to teach a combination of the steps of:

receiving a first broadcast signal obtained by multiplexing first information to be distributed in a Markup language description format used in a multimedia network and a first error check code added for the information to be distributed, wherein said receiving step is also arranged so as to received a second broadcast signal provided by

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multiplexing second signal including character information distributed without using the Markup language description format, and a second error check code, wherein the first information has a data format thereof which includes a format that complies with a data format of the second information, and wherein the data format forms an error correction code, the first information is transmitted as an entity in the data format of the second information, and the header of the first information forms another error correction code, in the specific combination as recited in the claim.

Regarding claim 40, the prior art fails to teach a combination of the steps of:

displaying second character information using a display unit arranged to display the first character information when said receiving step receives a broadcast signal obtained by multiplexing the character information, in the specific combination as recited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

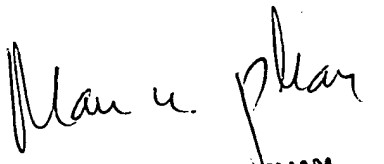
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER